Table J2. - Chemical Properties of the Soils

Augusta County, Virginia

Absence of an entry indicates that data were not estimated.

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
_	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
IB:								
Allegheny	0-12	4.8-14	3.6-11	3.6 - 5.5				
	12-34	4.5-9.9	3.4-7.4	3.6 - 5.5				
	34-60	2.5-9.9	1.9-7.4	3.6 - 5.5				
2B:								
Allegheny	0-6	6.0-16	4.5-12	3.6 - 5.5				
3 ,	6-34	2.5-9.9	1.9-7.4	3.6 - 5.5				
	34-60	2.5-8.6	1.9-6.5	3.6 - 5.5				
BB:								
Allegheny	0-6	4.8-14	3.6-11	3.6 - 5.5				
Allegherry	6-34	4.5-9.9	1.9-7.4	3.6 - 5.5				
	34-60	2.5-9.9	1.9-7.4	3.6 - 5.5				
			a =					
Cotaco	0-15	3.6-18	2.7-14	3.6 - 5.5				
	15-60	7.4-15	5.6-11	3.6 - 5.5				
Purdy								
Wet Spots								
BC:								
Allegheny	0-6	4.8-14	3.6-11	3.6 - 5.5				
-3 - 7	6-34	4.5-9.9	3.4-7.4	3.6 - 5.5				
	34-60	2.5-9.9	1.9-7.4	3.6 - 5.5				
Cotaco	0-15	3.6-18	2.7-14	3.6 - 5.5				
Colaco	15-60	7.4-15	5.6-11	3.6 - 5.5				
	10 00	7.4 10	0.0 11	0.0 0.0				
Wet Spots								
B:								
Allegheny	0-6	6.0-16	4.5-12	3.6 - 5.5				
, mognony	6-34	2.5-9.9	1.9-6.5	3.6 - 5.5				
	34-60	2.5-8.6	1.9-6.5	3.6 - 5.5				
Cotooo	0.0	2.6.40	2744	26 55				
Cotaco	0-9	3.6-18	2.7-14	3.6 - 5.5				
	9-60	6.3-13	4.7-10	3.6 - 5.5				
Purdy								
Wet Spots								

4C:

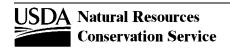


Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
C:								
Allegheny	0-6	6.0-16	4.5-12	3.6 - 5.5				
	6-34	2.5-9.9	1.9-7.4	3.6 - 5.5				
	34-60	2.5-8.6	1.9-6.5	3.6 - 5.5				
Cotaco	0-9	3.6-18	2.7-14	3.6 - 5.5				
	9-60	6.3-13	4.7-10	3.6 - 5.5				
Wet Spots								
i:								
Aqualfs	0-3	11-21	8.1-16	5.6 - 8.4				
	3-43	12-19	9.2-14	5.6 - 8.4				
	43-60	12-19	9.2-14	5.6 - 8.4				
:								
Aquents	0-10	6.2-17	4.7-13	5.6 - 7.3				
·	10-27	1.8-12	1.3-9.2	5.6 - 7.3				
	27-30	1.8-8.1	1.3-6.1	5.6 - 7.3				
	30-34							
·								
Atkins	0-9	9.8-18	7.3-13	4.5 - 5.5				
	9-33	6.3-13	4.7-10	4.5 - 5.5				
	33-67	3.5-13	2.6-10	4.5 - 5.5				
D:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-27	1.8-12	1.3-9.2	3.6 - 6.5				
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5				
	30-34							
Wet Spots								
E:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-27	1.8-12	1.3-9.2	3.6 - 6.5				
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5				
	30-34							
Wet Spots								
F:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
Donie	10-27	1.8-12	1.3-9.2	3.6 - 6.5				
	27-30	1.8-8.1	1.3-9.2	3.6 - 6.5				
	/ I = JU	1.O-O. I	1.J-U. I	0.0 - 0.0				

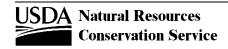
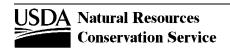


Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
000	In	meq/100 g	meq/100 g	pН	Pct	Pct	mmhos/cm	
9B2:	0.40	0.0.47	4 7 40	00.05				
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-27 27-30	1.8-12 1.8-8.1	1.3-9.2 1.3-6.1	3.6 - 6.5 3.6 - 6.5				
	30-34	1.0-0.1	1.3-0.1					
Maileart	0.5	7.5.40	F 0 40	45.00				
Weikert	0-5 5-13	7.5-16	5.6-12	4.5 - 6.0				
	5-13 13-17	5.2-11 	3.9-7.9	4.5 - 6.0				
	13-17							
Wet Spots								
9C2:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-27	1.8-12	1.3-9.2	3.6 - 6.5				
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5				
	30-34							
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0				
	5-13	5.2-11	3.9-7.9	4.5 - 6.0				
	13-17							
10B2:								
Bookwood	0-6	5.8-14	4.3-10	5.1 - 6.5				
Bookwood	6-30	7.0-13	5.2-10	5.1 - 6.5				
	30-36	9.4-17	7.1-13	5.1 - 6.5				
	36-41							
	41-60							
0C2:								
Bookwood	0-6	5.8-14	4.3-10	5.1 - 6.5				
Dockwood	6-30	7.0-13	5.2-10	5.1 - 6.5				
	30-36	9.4-17	7.1-13	5.1 - 6.5				
	36-41							
	41-60							
Wet Spots								
I0D2:								
Bookwood	0-6	5.8-14	4.3-10	5.1 - 6.5				
DOOKWOOU	6-30	7.0-14 7.0-13	4.3-10 5.2-10	5.1 - 6.5 5.1 - 6.5				
	30-36	9.4-17	5.2-10 7.1-13	5.1 - 6.5 5.1 - 6.5				
	30-36 36-41		7.1-13	J. I - 0.5				
	41-60							
	41-00							

10E2:



Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
)E2:								
Bookwood	0-6	5.8-14	4.3-10	5.1 - 6.5				
	6-30 30-36	7.0-13 9.4-17	5.2-10 7.1-13	5.1 - 6.5 5.1 - 6.5				
	30-36 36-41	9.4-17	7.1-13	5.1 - 0.5 				
	41-45							
	41-43							
A:								
Buchanan	0-11	4.8-14	3.6-10	3.6 - 5.5				
	11-44	4.5-8.6	3.4-6.5	3.6 - 5.5				
	44-60	4.5-12	3.4-9.3	3.6 - 5.5				
Purdy								
uruy								
B:								
Buchanan	0-11	4.8-14	3.6-10	3.6 - 5.5				
	11-44	4.5-8.6	3.4-6.5	3.6 - 5.5				
	44-60	4.5-12	3.4-9.3	3.6 - 5.5				
Purdy								
2B:								
Buchanan	0-11	4.8-14	3.6-10	3.6 - 5.5				
	11-44	4.5-8.6	3.4-6.5	3.6 - 5.5				
	44-60	4.5-12	3.4-9.3	3.6 - 5.5				
Purdy								
BC:								
Buchanan	0-11	4.8-14	3.6-10	3.6 - 5.5				
Sacrianan	11-44	4.5-8.6	3.4-6.5	3.6 - 5.5				
	44-60	4.5-12	3.4-9.3	3.6 - 5.5				
Manangahala	0.0	7.0.40	E 0 40	45 55				
Monongahela	0-9	7.0-16	5.2-12	4.5 - 5.5				
	9-28	4.5-9.9	3.4-7.4	4.5 - 5.5				
	28-53 53-62	4.5-9.9 2.5-9.9	3.4-7.4 1.9-7.4	4.5 - 5.5 4.5 - 5.5				
Purdy								
k:	<u></u>	0.0.10	0044	000	0.40			
Buckton	0-7	8.0-18	6.0-14	6.6 - 8.4	0-10			
	7-54 54-90	6.3-13 1.8-5.7	4.7-10 1.3-4.3	7.4 - 8.4 7.4 - 8.4	0-10 0-10			
					•			
Wet Spots								

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
15B:								
Burketown	0-15	3.5-11	2.6-7.9	4.5 - 6.5				
	15-34	1.2-5.6	0.9-4.2	4.5 - 6.5				
	34-48	1.2-4.9	0.9-3.7	4.5 - 6.5				
	48-64	1.2-15	0.9-11	4.5 - 6.5				
Flooded Soils								
15C:								
Burketown	0-15	3.5-11	2.6-7.9	4.5 - 6.5				
	15-34	1.2-5.6	0.9-4.2	4.5 - 6.5				
	34-48	1.2-4.9	0.9-3.7	4.5 - 6.5				
	48-64	1.2-15	0.9-11	4.5 - 6.5				
16E:								
Cataska	0-7	5.2-12	3.9-9.2	3.6 - 5.5		0		
	7-17	4.1-10	3.1-7.5	3.6 - 5.5		0		
	17-24							
	24-28							
6F:								
Cataska	0-7	5.2-12	3.9-9.2	3.6 - 5.5		0		
Gulaska	7-17	4.1-10	3.1-7.5	3.6 - 5.5		0		
	17-24	4 .1-10	3. I-7.3 	3.0 - 3.3				
	24-28							
7E:								
Cataska	0-7	5.2-12	3.9-9.2	3.6 - 5.5				
Cataska								
	7-17	4.1-10	3.1-7.5	3.6 - 5.5				
	17-24 24-28							
0.								
18:	0.44	0.0.40	0.0.44	50.70				
Chagrin	0-11	8.0-18	6.0-14	5.6 - 7.3				
	11-48 48-72	6.3-15 1.8-11	4.7-11 1.3-8.2	5.6 - 7.3 5.6 - 7.3				
	40-72	1.0-11	1.3-0.2	5.0 - 7.3				
Fluvaquents								
9:								
Chavies	0-14	3.6-15	2.7-12	4.5 - 7.3				
	14-34	2.5-7.4	1.8-5.6	4.5 - 7.3				
	34-62	2.5-7.4	1.8-5.6	4.5 - 6.0				
20B2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	11-29	7.9-22	6.6 - 8.4				

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
20B2:	In	meq/100 g	meq/100 g	pН	Pct	Pct	mmhos/cm	
Wet Spots								
0C2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	11-29	7.9-22	6.6 - 8.4				
	22-26							
Wet Spots								
:1B3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	11-29	7.9-22	6.6 - 8.4				
	22-26							
Wet Spots								
:1C3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	11-29	7.9-22	6.6 - 8.4				
	22-26							
Wet Spots								
21D3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
OTHIN TOWNS	0-7 7-17	21-29	16-22	6.1 - 8.4 6.1 - 8.4				
	17-22	11-29	7.9-22	6.6 - 8.4				
	22-26							
Wet Spots								
:1E3:								
	0.7	12.21	0746	61 04				
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22 22-26	11-29 	7.9-22 	6.6 - 8.4				
Wet Spots								



22B2:

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
22B2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	19-29	14-22	6.6 - 8.4				
	22-26							
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8				
	8-40	12-22	9.2-17	5.1 - 7.8				
	40-70	9.4-22	7.1-17	5.6 - 7.8				
	70-74							
Wet Spots								
22C2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	19-29	14-22	6.6 - 8.4				
	22-26							
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8				
	8-40	12-22	9.2-17	5.1 - 7.8				
	40-70	9.4-22	7.1-17	5.6 - 7.8				
	70-74							
Wet Spots								
22D2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	19-29	14-22	6.6 - 8.4				
	22-26							
Edom	0-8	9.8-19	7.3-14	5.1 - 7.8				
	8-40	12-22	9.2-17	5.1 - 7.8				
	40-70	9.4-22	7.1-17	5.6 - 7.8				
	70-74							
Wet Spots								
23C3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	19-29	14-22	6.6 - 8.4				
	22-26							
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8				
	8-40	12-22	9.2-17	5.1 - 7.8				
	40-70	9.4-22	7.1-17	5.6 - 7.8				
	70-74							



Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
2000	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
23C3:								
Wet Spots								
23E3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22	19-29	14-22	6.6 - 8.4				
	22-26							
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8				
	8-40	12-22	9.2-17	5.1 - 7.8				
	40-70	9.4-22	7.1-17	5.6 - 7.8				
	70-74							
Wet Spots								
24B2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
Cilistan	7-13	6.2-14	4.7-8.3	3.6 - 5.5				
	13-40	8.8-16	6.6-12	3.6 - 5.5				
	40-70	8.8-16	6.6-12	3.6 - 5.5				
Wet Spots								
24C2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
Omstan	7-13	6.2-11	4.7-8.3	3.6 - 5.5				
	13-40	8.8-16	6.6-12	3.6 - 5.5				
	40-70	8.8-16	6.6-12	3.6 - 5.5				
Wet Spots								
2400								
24D2:	0.7	F O 44	2.0.40	20 55				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-11	4.7-8.3	3.6 - 5.5				
	13-40	8.8-16	6.6-12	3.6 - 5.5				
	40-70	8.8-16	6.6-12	3.6 - 5.5				
Wet Spots								
24E2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-11	4.7-8.3	3.6 - 5.5				
	13-40	8.8-16	6.6-12	3.6 - 5.5				
	40-70	8.8-16	6.6-12	3.6 - 5.5				
25C2:								

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	ln	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
25C2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-11	4.7-8.3	3.6 - 5.5				
	13-40	8.8-16	6.6-12	3.6 - 5.5				
	40-70	8.8-16	6.6-12	3.6 - 5.5				
Wet Spots								
25D2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-11	4.7-8.3	3.6 - 5.5				
	13-40	8.8-16	6.6-12	3.6 - 5.5				
	40-70	8.8-16	6.6-12	3.6 - 5.5				
Wet Spots								
26:								
Cotaco Variant	0-8	8.6-23	6.4-18	4.5 - 5.5				
	8-61	12-26	9.2-19	4.5 - 5.5				
	61-98	8.8-26	6.6-19	4.5 - 5.5				
Purdy								
27:								
Craigsville	0-5	4.0-12	3.0-9.0	4.5 - 5.5				
	5-27	1.8-6.4	1.3-4.8	4.5 - 5.5				
	27-60	1.8-4.6	1.3-3.5	4.5 - 5.5				
Wet Spots								
28:								
Craigsville	0-5	4.0-12	3.0-9.0	4.5 - 5.5				
	5-27	1.8-6.4	1.3-4.8	4.5 - 5.5				
	27-60	1.8-4.6	1.3-3.5	4.5 - 5.5				
Wet Spots								
29E:								
Drall	0-10	2.4-9.0	2.2-6.8	4.5 - 5.5				
	10-31	2.4-6.0	1.8-4.5	4.5 - 5.5				
	31-58	1.6-14	1.2-10	4.5 - 5.5				
	58-62							
29F:								
Drall	0-10	2.4-9.0	2.2-6.8	4.5 - 5.5				
	10-31	2.4-6.0	1.8-4.5	4.5 - 5.5				
	31-58	1.6-14	1.2-10	4.5 - 5.5				
	58-62							

Table J2. - Chemical Properties of the Soils - Continued

Edom 0-8 9.8-21 7.3-16 5.1 - 7.8	Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
30B2: Edom	205.	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
Edom	231 .								
8.40	30B2:								
40-70	Edom	0-8	9.8-21	7.3-16	5.1 - 7.8				
70-74				9.2-17					
30C2: Edom			9.4-22	7.1-17	5.6 - 7.8				
Edom 0-8 9.8-21 7.3-16 5.1-7.8		70-74							
Edom 0-8 9.8-21 7.3-16 5.1-7.8	30C2·								
8-40 12-22 9.2-17 5.1 - 7.8		0-8	9 8-21	7 3-16	51-78				
30D2: Edom									
30D2: Edom									
Edom 0-8 9.8-21 7.3-16 5.1-7.8									
Edom 0-8 9.8-21 7.3-16 5.1-7.8									
8-40 12-22 9.2-17 5.1 - 7.8		0.0	0.0.04	7040	F4 70				
40-70 9.4-22 7.1-17 5.6 - 7.8	Edom								
31B3: Edom									
31B3: Edom									
Edom 0-8 14-23 11-17 5.1 - 7.8									
8-40 12-22 9.2-17 5.1 - 7.8	31B3:								
40-70 9.4-22 7.1-17 5.6 - 7.8	Edom								
31C3: Edom									
31C3: Edom									
Edom 0-8 14-23 11-17 5.1 - 7.8		70-74							
Edom 0-8 14-23 11-17 5.1 - 7.8	31C3:								
8-40 12-22 9.2-17 5.1 - 7.8	Edom	0-8	14-23	11-17	5.1 - 7.8				
32C2: Edom									
32C2: Edom		40-70	9.4-22	7.1-17	5.6 - 7.8				
Edom 0-8 14-23 11-17 5.1 - 7.8		70-74							
Edom 0-8 14-23 11-17 5.1 - 7.8	2202								
8-40 12-22 9.2-17 5.1 - 7.8		0-8	14-23	11_17	51-78				
40-70 9.4-22 7.1-17 5.6 - 7.8	Luom								
Rock Outcrop 0-60 32E2: Edom 0-8 14-23 11-17 5.1 - 7.8 8-40 12-22 9.2-17 5.1 - 7.8 40-70 9.4-22 7.1-17 5.6 - 7.8 70-74 -									
32E2: Edom 0-8 14-23 11-17 5.1 - 7.8 40-70 9.4-22 7.1-17 5.6 - 7.8 70-74									
32E2: Edom 0-8 14-23 11-17 5.1 - 7.8 40-70 9.4-22 7.1-17 5.6 - 7.8 70-74									
Edom 0-8 14-23 11-17 5.1 - 7.8 8-40 12-22 9.2-17 5.1 - 7.8 40-70 9.4-22 7.1-17 5.6 - 7.8 70-74	Rock Outcrop	0-60							
Edom 0-8 14-23 11-17 5.1 - 7.8 8-40 12-22 9.2-17 5.1 - 7.8 40-70 9.4-22 7.1-17 5.6 - 7.8 70-74	32F2·								
8-40 12-22 9.2-17 5.1 - 7.8 40-70 9.4-22 7.1-17 5.6 - 7.8 70-74		0-8	14-23	11-17	5.1 - 7.8				
40-70 9.4-22 7.1-17 5.6 - 7.8 70-74	·*******								
70-74									
Rock Outcrop 0-60									
Rock Outcrop 0-60	5								
	Rock Outcrop	0-60							



Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
33E:								
Elliber	0-11	3.5-11	2.6-8.4	3.6 - 5.5				
	11-63	1.2-4.9	0.9-3.7	3.6 - 5.5				
34F:								
Elliber	0-11	3.5-11	2.6-8.4	3.6 - 5.5				
	11-63	1.2-4.9	0.9-3.7	3.6 - 5.5				
Jefferson	0-13	3.6-13	2.7-9.8	4.5 - 5.5				
Jellerson	13-57	4.5-9.6	3.4-7.2	4.5 - 5.5 4.5 - 5.5				
	57-65	3.8-8.6	2.8-6.5	4.5 - 5.5				
B5B2:	0.6	4642	2504	5.1 - 7.3				
Endcav	0-6 6-60	4.6-13 21-29	3.5-9.4 16-22					
				5.1 - 7.8				
	60-64							
Wet Spots								
35C2:								
Endcav	0-6	4.6-13	3.5-9.9	5.1 - 7.3				
	6-60	21-29	16-22	5.1 - 7.8				
	60-64							
Wet Spots								
36B2:								
Endcav	0-6	4.6-13	3.5-9.9	5.1 - 7.3				
Liideav	6-60	21-29	16-22	5.1 - 7.8 5.1 - 7.8				
	60-64							
Wet Spots								
37C2:								
Endcav	0-6	4.6-13	3.5-9.9	5.1 - 7.3				
Lindoav	6-60	21-29	16-22	5.1 - 7.8				
	60-64							
Rock Outcrop	0-60							
Wet Spots								
88B:								
Ernest	0-11	9.8-16	7.3-12	4.5 - 6.0				
	11-26	7.0-13	5.2-10	4.5 - 5.5				
	26-42	6.3-12	4.7-8.7	4.5 - 5.5				
	42-60	7.0-13	5.2-10	4.5 - 5.5				

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
38B:								
Wet Spots								
38C:								
Ernest	0-11	9.8-16	7.3-12	4.5 - 6.0				
	11-26	7.0-13	5.2-10	4.5 - 5.5				
	26-42	6.3-12	4.7-8.7	4.5 - 5.5				
	42-60	7.0-13	5.2-10	4.5 - 5.5				
Wet Spots								
39:								
Fluvaquents	0-9	9.8-18	7.3-13	4.5 - 5.5				
·	9-33	6.3-13	4.7-10	4.5 - 5.5				
	33-67	4.6-17	3.5-13	4.5 - 5.5				
Very Poorly Drained Soils								
10B2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								
IOC2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
. Todorion	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
Ombuan	7-13	6.2-14	4.7-7.5	3.6 - 5.5 3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12 7.5-12	3.6 - 5.5 3.6 - 5.5				
W-4 O4-								
Wet Spots								

40D2:

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
40D2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Timberville								
40E2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
41B3:								
Frederick	0-7	7.9-15	5.9-11	4.5 - 6.0				
redeficit	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	7.9-15	5.9-11	3.6 - 5.5				
Omistan	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								
41C3:								
Frederick	0-7	7.9-15	5.9-11	4.5 - 6.0		_		
I ICUCIIUN	0-7 7-14	7.9-15 8.8-16	5.9-11 6.6-12	4.5 - 6.0 4.5 - 6.0				
	7-14 14-50	10-16	7.5-12	4.5 - 6.0 4.5 - 6.0				
	50-70	10-16	7.5-12 7.5-12	4.5 - 6.0				
Christian	0.7	7045	E O 44	26 55				
Christian	0-7 7 13	7.9-15 6.2.10	5.9-11 4.7.7.5	3.6 - 5.5 3.6 - 5.5				
	7-13 13-40	6.2-10 10-16	4.7-7.5 7.5-12	3.6 - 5.5				
	13-40 40-70	10-16 10-16	7.5-12 7.5-12	3.6 - 5.5 3.6 - 5.5				
Wet Spots								

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
41C3:								
41D3:								
Frederick	0-7	7.9-15	5.9-11	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	7.9-15	5.9-11	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
42B2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	4.8-17	3.6-13	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								
42C2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	4.8-17	3.6-13	3.6 - 5.5				
ooud	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								
42D2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	4.8-17	3.6-13	3.6 - 5.5				
Simolari	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				



Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
12D2:								
Wet Spots								
12E2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	4.8-17	3.6-13	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
I3C:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	3.6-11	2.7-8.4	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								
13D:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	6.1-15	4.6-11	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								
13E:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
1 TOUCHON	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0 4.5 - 6.0				
	50-70	10-16	7.5-12 7.5-12	4.5 - 6.0				

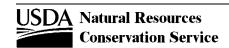


Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
40E-	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
43E: Christian	0.7	6.1-15	4 6 44	26 F F				
Christian	0-7 7-13	6.2-10	4.6-11 4.7-7.5	3.6 - 5.5 3.6 - 5.5				
	7-13 13-40	10-16	7.5-12	3.6 - 5.5 3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
14B2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								
14C2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								
14D2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
Wet Spots								

44E2:



Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
14E2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5				
	7-13	6.2-10	4.7-7.5	3.6 - 5.5				
	13-40	10-16	7.5-12	3.6 - 5.5				
	40-70	10-16	7.5-12	3.6 - 5.5				
5C2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Rock Outcrop	0-60							
5E2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
Frederick	7-14	8.8-16	6.6-12	4.5 - 6.0 4.5 - 6.0				
	7-14 14-50	10-16	7.5-12	4.5 - 6.0 4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Rock Outcrop	0-60							
Wet Spots								
CD.								
6B:	0.7	5.5-11	4.4.0.4	45.00				
Frederick	0-7 7-14	5.5-11 8.8-16	4.1-8.4 6.6-12	4.5 - 6.0 4.5 - 6.0				
	7-14 14-50	10-16	7.5-12	4.5 - 6.0 4.5 - 6.0				
	50-70	10-16	7.5-12 7.5-12	4.5 - 6.0 4.5 - 6.0				
Nixa	0-15	5.2-13	3.9-9.8	4.5 - 5.5				
INIAG	0-15 15-34	5.2-13 4.1-8.5	3.9-9.6 3.1-6.4	4.5 - 5.5 4.5 - 5.5				
	34-64	4.1-6.5 5.0-9.9	3.1-6.4 3.8-7.4	4.5 - 5.5 4.5 - 5.5				
	34-64 64-68	5.0-9.9 5.0-9.9	3.8-7.4 3.8-7.4	4.5 - 5.5 4.5 - 5.5				
Wet Spots								
6C:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				

Table J2. - Chemical Properties of the Soils - Continued

	Depth	Exchange Capacity	Cation Exchange Capacity	Soil Reaction	Carbon- ate	Gypsum	Salinity	Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
46C:								
Nixa	0-15	5.2-13	3.9-9.8	4.5 - 5.5				
	15-34	4.1-8.5	3.1-6.4	4.5 - 5.5				
	34-64	5.0-9.9	3.8-7.4	4.5 - 5.5				
	64-68	5.0-9.9	3.8-7.4	4.5 - 5.5				
Wet Spots								
47C:								
Guernsey	0-6	6.8-16	5.1-12	4.5 - 7.3				
•	6-13	8.8-16	6.6-12	4.5 - 6.0				
	13-40	12-22	9.2-17	4.5 - 7.8				
	40-60	12-22	9.2-17	5.1 - 8.4				
	60-64							
Poorly Drained Soils								
48E:								
Hartleton	0-6	5.8-16	4.3-12	4.5 - 5.5				
	6-13	5.2-12	3.9-8.7	4.5 - 5.5				
	13-25	5.2-11	3.9-7.9	4.5 - 5.5				
	25-50							
	50-54							
49F:								
Hartleton	0-6	5.8-16	4.3-12	4.5 - 5.5				
	6-33	5.2-12	3.9-8.7	4.5 - 5.5				
	33-50	5.2-11	3.9-7.9	4.5 - 5.5				
	50-54							
	54-58							
50D:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5				
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5				
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5				
	68-72							
50E:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5				
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5				
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5				
	68-72							
51D:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5				
- =: = : = : :	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5				
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5				
	68-72		0.9-3.7	3.0 - 3.3			_	

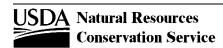


Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
51F:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5				
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5				
	27-68 68-72	1.2-4.9	0.9-3.7	3.6 - 5.5 				
	00 72							
52F:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5				
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5				
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5				
	68-72							
Lehew	0-7	5.5-13	4.1-9.8	4.5 - 5.5				
· v ··	7-32	1.2-5.6	0.9-4.2	4.5 - 5.5				
	32-36	1.2-5.6	0.9-4.2	4.5 - 5.5				
	36-40							
53C:	0.40	0.0.40	0.7.0.0	45 55				
Jefferson	0-13	3.6-13	2.7-9.8	4.5 - 5.5				
	13-44	4.5-9.6	3.4-7.2	4.5 - 5.5				
	44-65	3.8-8.6	2.8-6.5	4.5 - 5.5				
53D:								
Jefferson	0-13	3.6-13	2.7-9.8	4.5 - 5.5				
	13-44	4.5-9.6	3.4-7.2	4.5 - 5.5				
	44-65	3.8-8.6	2.8-6.5	4.5 - 5.5				
54C:								
Leetonia	0-7	1.9-7.0	1.4-5.2	3.6 - 5.0				
Ecctoria	7-20	0.8-4.9	0.6-3.7	3.6 - 5.0				
	20-45	0.8-3.6	0.6-2.7	3.6 - 5.0				
	45-48							
_								
54E:	<u></u>	40-0	4.4-5	00 -0				
Leetonia	0-7	1.9-7.0	1.4-5.2	3.6 - 5.0				
	7-20	0.8-4.9	0.6-3.7	3.6 - 5.0				
	20-45	0.8-3.6	0.6-2.7	3.6 - 5.0				
	45-48							
55D:								
Lehew	0-7	3.2-13	2.4-9.8	4.5 - 5.5				
	7-26	1.2-5.6	0.9-4.2	4.5 - 5.5				
	26-32	1.2-5.6	0.9-4.2	4.5 - 5.5				
	32-36							
- O.D.								

56D:

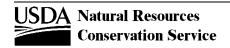


Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	ln	meq/100 g	meq/100 g	pН	Pct	Pct	mmhos/cm	
56D:	0.7	0.0.40	0.400	45.55				
Lehew	0-7	3.2-13	2.4-9.8	4.5 - 5.5				
	7-26 26-32	1.2-5.6 1.2-5.6	0.9-4.2 0.9-4.2	4.5 - 5.5 4.5 - 5.5				
	32-36	1.2-5.0	0.9-4.2	4.5 - 5.5				
57E:								
Lehew	0-7	5.8-13	4.3-9.8	4.5 - 5.5				
Lenew	7-26	1.2-5.6	0.9-4.2	4.5 - 5.5				
	26-32	1.2-5.6	0.9-4.2	4.5 - 5.5				
	32-36							
57F:								
Lehew	0-7	5.8-13	4.3-9.8	4.5 - 5.5				
	7-26	1.2-5.6	0.9-4.2	4.5 - 5.5				
	26-32	1.2-5.6	0.9-4.2	4.5 - 5.5				
	32-36							
58D:								
Lew	0-11	5.8-13	4.3-9.9	4.5 - 6.0				
	11-72	9.8-13	7.4-10	4.5 - 6.0				
59E:								
Lew	0-11	5.8-13	4.3-9.9	4.5 - 6.0				
	11-72	9.8-13	7.4-10	4.5 - 6.0				
59F:								
Lew	0-11	5.8-13	4.3-9.9	4.5 - 6.0				
	11-72	9.8-13	7.4-10	4.5 - 6.0				
60:								
Massanetta	0-9	16-27	12-20	7.4 - 8.4	0-10			
	9-44	9.2-16	6.9-12	7.4 - 8.4	0-10			
	44-74	7.0-19	5.2-14	7.4 - 8.4	0-10			
	74-78							
Wet Soils								
S1B:								
Millrock	0-8	3.0-8.0	2.2-6.0	6.1 - 7.3				
	8-43	0.7-4.6	0.5-3.5	6.1 - 7.3				
	43-60	0.7-4.6	0.5-3.5	6.1 - 7.3				
Frequented Flooded Soils								

62B:



Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
2B:								
Monongahela	0-9	8.0-18	6.0-14	4.5 - 5.5				
	9-28	6.3-13	4.7-10	4.5 - 5.5				
	28-53	6.3-13	4.7-10	4.5 - 5.5				
	53-62	3.5-13	2.6-10	4.5 - 5.5				
Purdy								
Wet Spots								
2C:								
Monongahela	0-9	8.0-18	6.0-14	4.5 - 5.5				
	9-28	6.3-13	4.7-10	4.5 - 5.5				
	28-53	6.3-13	4.7-10	4.5 - 5.5				
	53-62	3.5-13	2.6-10	4.5 - 5.5				
	33 32	0.0 .0						
Purdy								
Wet Spots								
3B:								
Monongahela	0-9	8.0-18	6.0-14	4.5 - 5.5				
Mononganola	9-28	6.3-13	4.7-10	4.5 - 5.5				
	28-53	6.3-13	4.7-10	4.5 - 5.5				
	53-62	3.5-13	2.6-10	4.5 - 5.5				
Purdy								
Wet Spots								
3C:								
Monongahela	0-9	8.0-18	6.0-14	4.5 - 5.5				
Monoriganeia	9-28	6.3-13	4.7-10	4.5 - 5.5 4.5 - 5.5				
	28-53	6.3-13	4.7-10	4.5 - 5.5 4.5 - 5.5				
	53-62	3.5-13	2.6-10	4.5 - 5.5				
Purdy								
Wet Spots								
4C:	0.45	F 0.40	2000	45 55				
Nixa	0-15	5.2-13	3.9-9.8	4.5 - 5.5				
	15-40	4.1-8.5	3.1-6.4	4.5 - 5.5				
	40-64	5.0-9.9	3.8-7.4	4.5 - 5.5				
	64-68	5.0-9.9	3.8-7.4	4.5 - 5.5				
Wet Spots								

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
64D:	- ·-							
Nixa	0-15	5.2-13	3.9-9.8	4.5 - 5.5				
	15-40 40-64	4.1-8.5	3.1-6.4 3.8-7.4	4.5 - 5.5 4.5 - 5.5				
	64-68	5.0-9.9 5.0-9.9	3.8-7.4 3.8-7.4	4.5 - 5.5 4.5 - 5.5				
Wet Spots								
65E:								
Opequon	0-6	12-25	8.8-19	5.1 - 7.8				
1 17.5	6-13	12-27	9.2-21	5.1 - 7.8				
	13-17							
Rock Outcrop	0-60							
66:								
Philo	0-7	8.0-15	6.0-12	4.5 - 6.0				
	7-33	3.5-7.4	2.6-5.6	4.5 - 6.0				
	33-60	1.8-7.4	1.3-5.6	4.5 - 6.0				
Wet Spots								
66X:								
Pits And Dumps	0-60							
67 :								
Purdy	0-3	11-21	8.1-16	3.6 - 5.5				
	3-43	12-19	9.2-14	3.6 - 5.5				
	43-60	12-19	9.2-14	3.6 - 5.5				
Ponded Soils								
Very Poorly Drained Soils								
68E:								
Rock Outcrop	0-60							
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4				
	7-17	21-29	16-22	6.1 - 8.4				
	17-22 22-26	11-29 	7.9-22 	6.6 - 8.4 				
9F:								
Rock Outcrop	0-60							

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
69F:								
Drall	0-10	0.5-3.6	0.4-2.7	4.5 - 5.0				
	10-31	2.4-6.0	1.8-4.5	4.5 - 5.5				
	31-58	1.6-14	1.2-10	4.5 - 5.5				
	58-62							
70C:								
Rock Outcrop	0-60							
ricon outerop								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Wet Spots								
70E:								
Rock Outcrop	0-60							
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0				
	7-14	8.8-16	6.6-12	4.5 - 6.0				
	14-50	10-16	7.5-12	4.5 - 6.0				
	50-70	10-16	7.5-12	4.5 - 6.0				
Wet Spots								
71:								
Rubble Land	0-60							
72F:								
Rushtown	0-10	8.6-16	6.4-12	4.5 - 6.0				
raomown	10-25	6.3-11	4.7-7.9	4.5 - 6.0				
	25-60	6.3-11	4.7-7.9	4.5 - 6.0				
73B2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5				
	8-32	8.8-16	6.4-12	4.5 - 5.5				
	32-60							
Wet Soils								
73C2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5				
20440.4	8-32	8.8-16	6.4-12	4.5 - 5.5				
	32-60							
Wet Soils								

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pН	Pct	Pct	mmhos/cm	
74B2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5				
	8-32	8.8-16	6.4-12	4.5 - 5.5				
	32-60							
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-27	1.8-12	1.3-9.2	3.6 - 6.5				
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5				
	30-34							
Wet Soils								
74C2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5				
·	8-32	8.8-16	6.4-12	4.5 - 5.5				
	32-60							
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-27	1.8-12	1.3-9.2	3.6 - 6.5				
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5				
	30-34							
74D2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5				
	8-32	8.8-16	6.4-12	4.5 - 5.5				
	32-60							
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-27	1.8-12	1.3-9.2	3.6 - 6.5				
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5				
	30-34							
Wet Spots								
75B2:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0				
	9-76	12-22	9.2-17	4.5 - 6.0				
75C2:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0				
GIIGIIVAI	9-76	12-22	9.2-17	4.5 - 6.0				
75D2:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0				
Grichval	9-76	12-22	9.2-17	4.5 - 6.0				
76C:								
	0-9	4.6-11	3.5-8.1	5.1 - 6.0				
Shenval	n.u							

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	I
76C:								
76D:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0				
	9-76	12-22	9.2-17	4.5 - 6.0				
77C:								
Sherando	0-6	2.4-8.2	1.8-6.2	3.6 - 6.0				
	6-15	2.5-6.1	1.9-4.6	4.5 - 5.5				
	15-45	2.5-6.1	1.9-4.6	4.5 - 5.5				
	45-75	1.2-3.6	0.9-2.7	4.5 - 5.5				
77D:								
Sherando	0-6	2.4-8.2	1.8-6.2	3.6 - 6.0				
	6-15	2.5-6.1	1.9-4.6	4.5 - 5.5				
	15-45	2.5-6.1	1.9-4.6	4.5 - 5.5				
	45-75	1.2-3.9	0.9-2.7	4.5 - 5.5				
78C:								
Sherando	0-6	2.4-8.2	1.8-6.2	3.6 - 6.0				
Cherana	6-15	2.5-6.1	1.9-4.6	4.5 - 5.5				
	15-45	2.5-6.1	1.9-4.6	4.5 - 5.5				
	45-75	1.2-3.6	0.9-2.7	4.5 - 5.5				
78E:								
Sherando	0-6	2.4-8.2	1.8-6.2	3.6 - 6.0				
Sileiailuo	6-15	2.4-6.2	1.0-0.2	4.5 - 5.5				
	15-45	2.5-6.1	1.9-4.6	4.5 - 5.5				
	45-75	1.2-3.6	0.9-2.7	4.5 - 5.5				
700.								
79B: Timberville	0-9	4.3-16	3.3-12	3.6 - 6.5				
Tittibetville	9-27	7.4-15	5.6-11	3.6 - 6.5				
	27-60	12-22	9.2-17	3.6 - 6.5				
Frequently Flooded Soils								
80B:								
Timberville	0-9	4.3-16	3.3-12	3.6 - 6.5				
	9-27	7.4-15	5.6-11	3.6 - 6.5				
	27-60	12-22	9.2-17	3.6 - 6.5				
Frequently Flooded Soils								
81:								
Tioga	0-9	6.2-20	4.7-15	5.1 - 7.3				
- U -	9-30	1.8-8.6	1.3-6.4	5.1 - 7.3				
	30-60	1.1-7.5	0.8-5.6	5.6 - 7.8				



Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
B1:	In	meq/100 g	meq/100 g	pН	Pct	Pct	mmhos/cm	
) i.								
32:								
Udifluvents	0-7	8.0-18	6.0-14	6.6 - 8.4				
	7-54	6.3-13	4.7-10	7.4 - 8.4				
	54-90	1.8-5.7	1.3-4.3	7.4 - 8.4				
Fluvaquents								
Wet Spots								
33:								
Udorthents								
Frequently Flooded Soils								
34:								
Udorthents								
Wet Spots								
35:								
Udorthents								
Wet Spots								
36B:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0				
	9-60	8.8-16	6.6-12	4.5 - 6.0				
	60-77	3.8-14	2.8-10	4.5 - 6.0				
36C2:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0				
Cilicon	9-60	8.8-16	6.6-12	4.5 - 6.0				
	60-77	5.0-14	3.8-10	4.5 - 6.0				
36D2:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0				
Childri	9-60	8.8-16	6.6-12	4.5 - 6.0				
	60-77	5.0-14	3.8-10	4.5 - 6.0				
37B:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0				
±:::2 v ::	9-60	8.8-16	6.6-12	4.5 - 6.0				
	60-77	5.0-14	3.8-10	4.5 - 6.0				
7C:								

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	ln	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
37C:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0				
	9-60	8.8-16	6.6-12	4.5 - 6.0				
	60-77	5.0-14	3.8-10	4.5 - 6.0				
37E:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0				
Offisoff	9-60	8.8-16	6.6-12	4.5 - 6.0				
	60-77	5.0-14	3.8-10	4.5 - 6.0				
_								
38:								
Urban Land								
9D3:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0				
	5-13	5.2-11	3.9-7.9	4.5 - 6.0				
	13-17							
Wet Areas								
9E3:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0				
	5-13	5.2-11	3.9-7.9	4.5 - 6.0				
	13-17							
89F3:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0				
	5-13	5.2-11	3.9-7.9	4.5 - 6.0				
	13-17							
Wet Soils								
0D2:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0				
	5-13	5.2-11	3.9-7.9	4.5 - 6.0				
	13-17							
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-27	1.8-12	1.3-9.2	3.6 - 6.5				
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5				
	30-34							
Wet Areas								
MC2.								
90E3:	0.5	75.46	E 6 40	45.60				
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0				
	5-17	5.2-11	3.9-7.9	4.5 - 6.0				

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
90E3:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5				
	10-26	1.8-12	1.3-9.2	3.6 - 6.5				
	26-33	1.8-8.1	1.3-6.1	3.6 - 6.5				
	33-37							
Wet Areas								
91B:								
Wheeling	0-10	4.1-7.2	3.1-5.4	5.1 - 6.0				
-	10-36	4.5-9.9	3.4-7.4	5.1 - 6.0				
	36-61	1.2-5.6	0.9-4.2	5.1 - 6.0				
91C2:								
Wheeling	0-10	4.1-7.2	3.1-5.4	5.1 - 6.0				
	10-36	4.5-9.9	3.4-7.4	5.1 - 6.0				
	36-61	1.2-5.6	0.9-4.2	5.1 - 6.0				
Frequently Flooded Soils								
92B:								
Wheeling	0-10	4.1-7.2	3.1-5.4	5.1 - 6.0				
	10-36	4.5-9.9	3.4-7.4	5.1 - 6.0				
	36-61	1.2-5.6	0.9-4.2	5.1 - 6.0				
Frequently Flooded Soils								
92C2:								
Wheeling	0-10	4.1-7.2	3.1-5.4	5.1 - 6.0				
-	10-36	4.5-9.9	3.4-7.4	5.1 - 6.0				
	36-61	1.2-5.6	0.9-4.2	5.1 - 6.0				
Frequently Flooded Soils								
DAM:								
Dam								
W:								
Water								